

FIG.5A

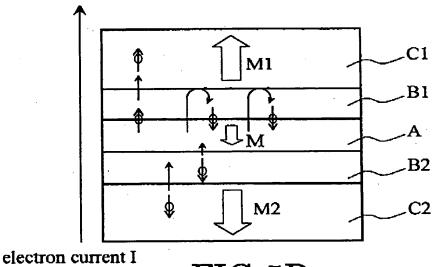
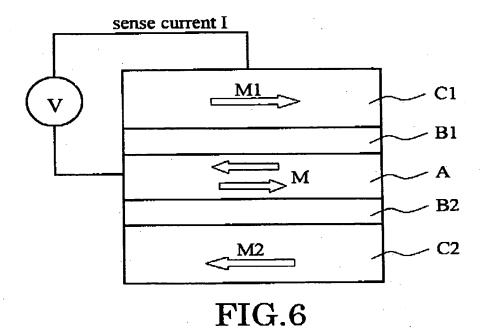
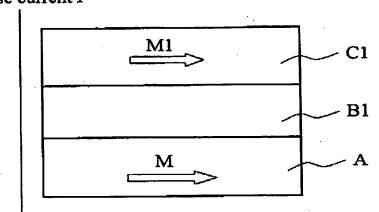


FIG.5B



sense current I

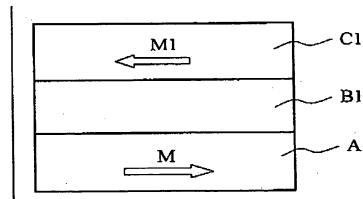


normal type: low resistance ("0" or "1")

reverse type: high resistance ("0" or "1")

FIG.7A

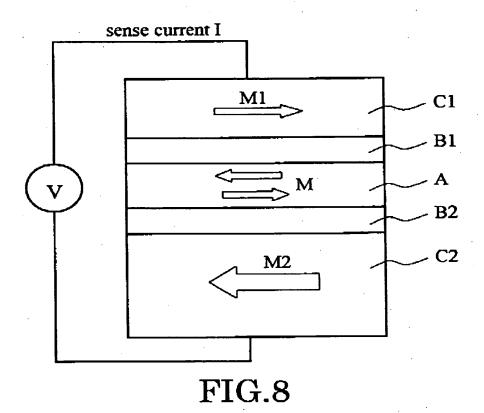
sense current I



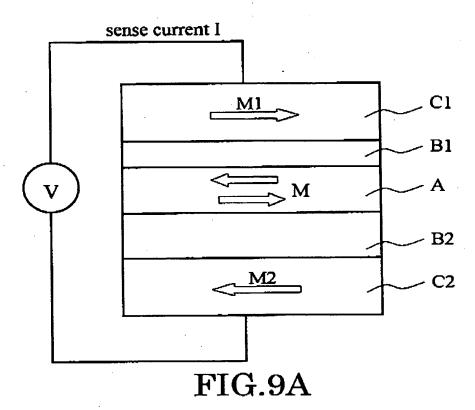
normal type: high resistance ("1" or "0") reverse type: low resistance ("1" or "0")

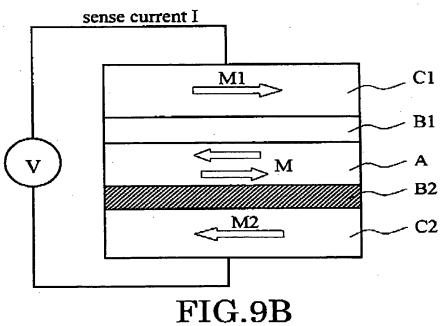
FIG.7B

7/42



8/42





OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 9 OF 42

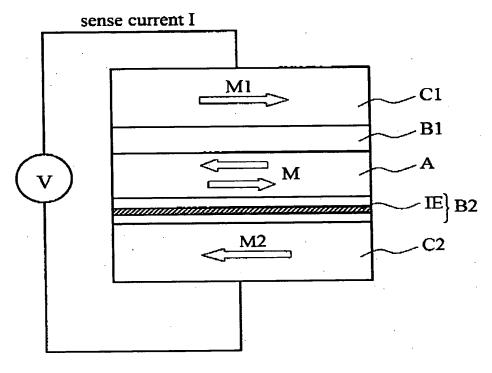


FIG.10

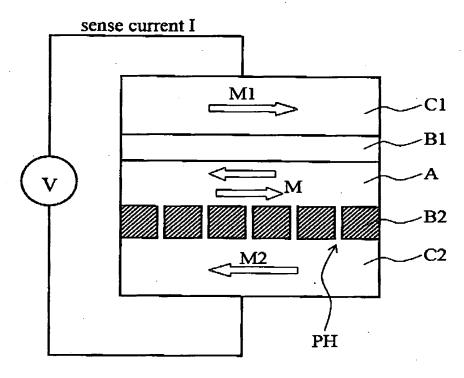
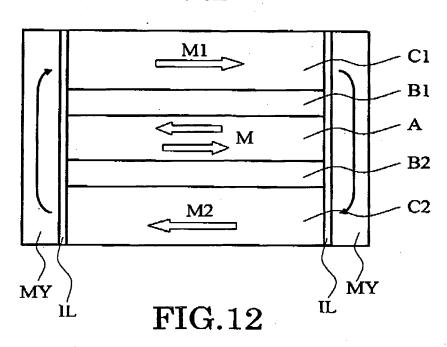
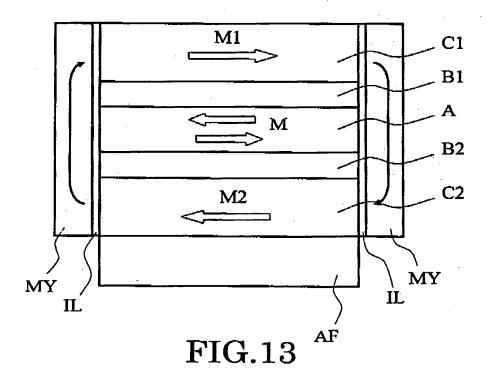


FIG.11

11/42





12/42

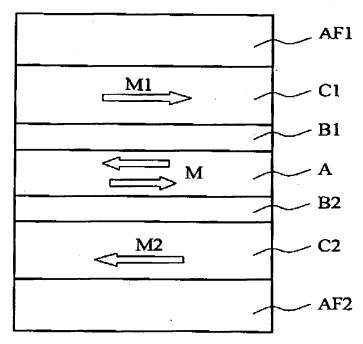


FIG.14

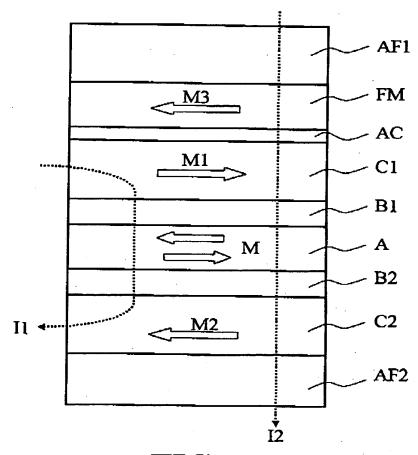


FIG.15

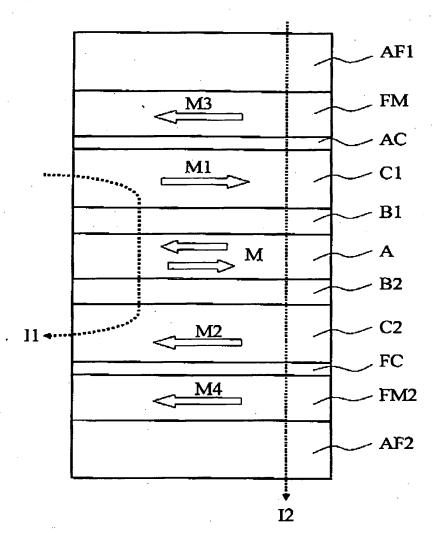


FIG.16

Coupling J

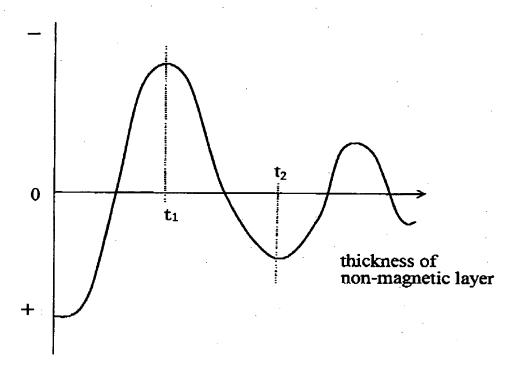


FIG.17

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 16 OF 42

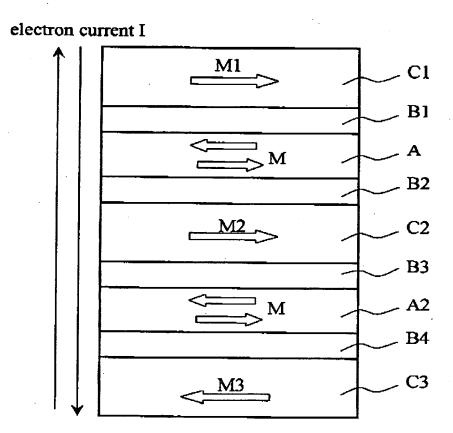


FIG.18

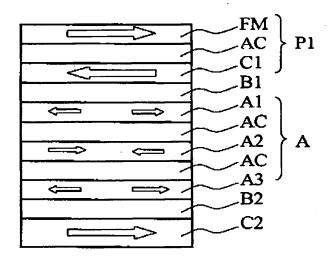


FIG.19

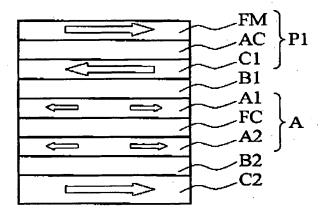


FIG.20

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 18 OF 42

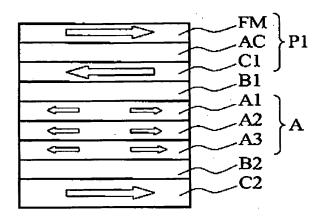


FIG.21

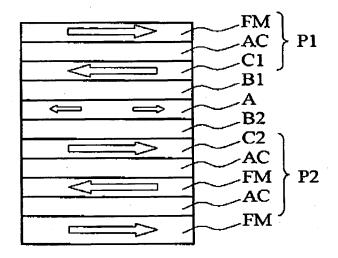


FIG.22

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 19 OF 42

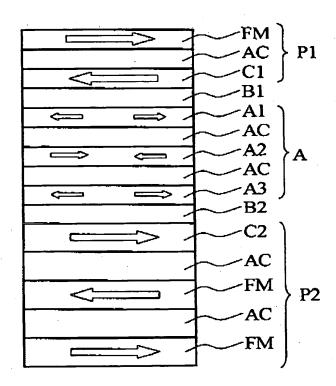


FIG.23

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET <u>20</u> OF <u>42</u>

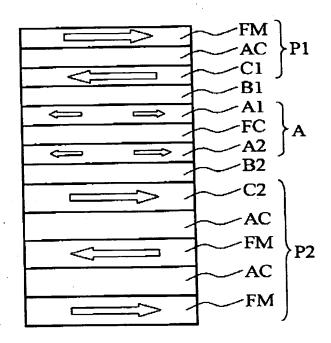


FIG.24

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 21 OF 42

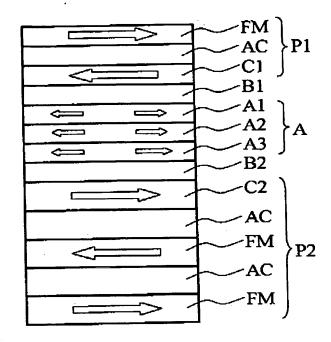


FIG.25

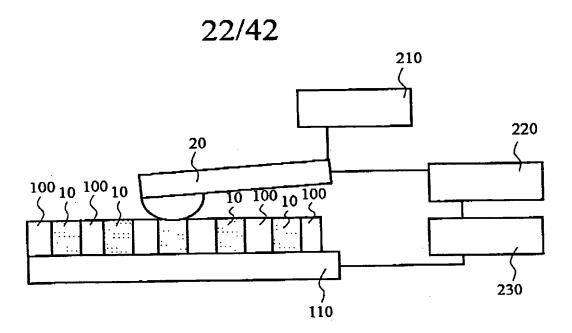


FIG.26

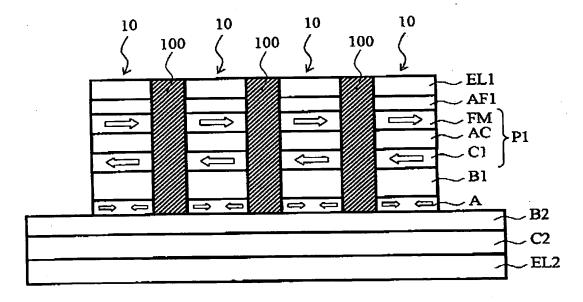


FIG.27

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 23 OF 42

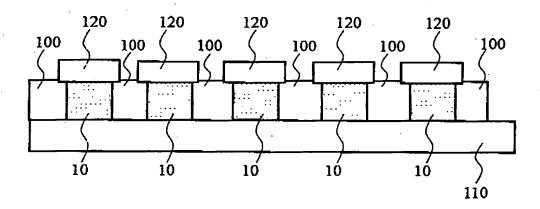


FIG.28

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET <u>24</u> OF <u>42</u>

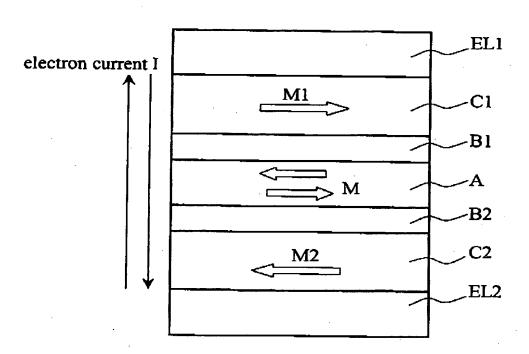


FIG.29A

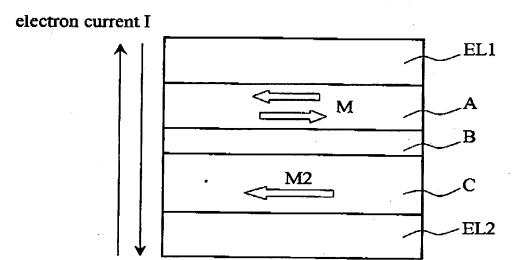


FIG.29B

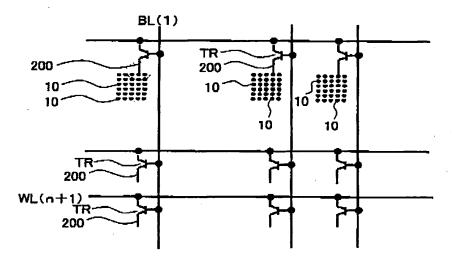


FIG.30

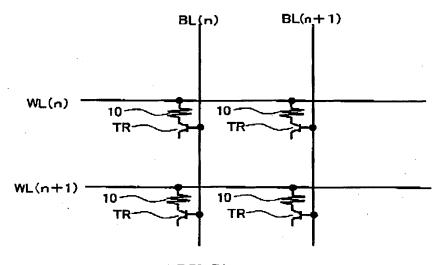


FIG.31

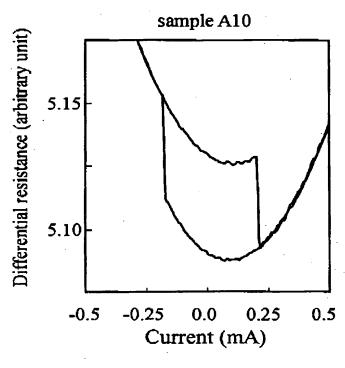
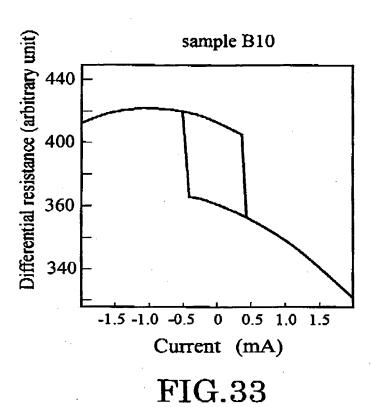


FIG.32



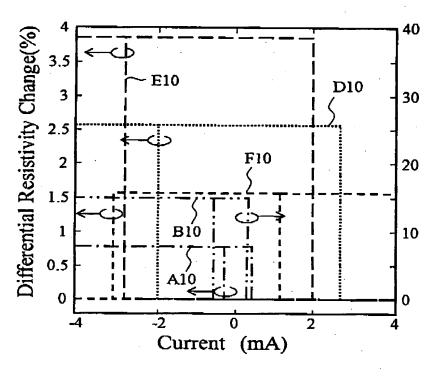


FIG.34

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 29 OF 42

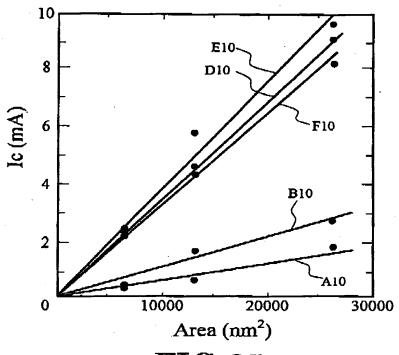


FIG.35

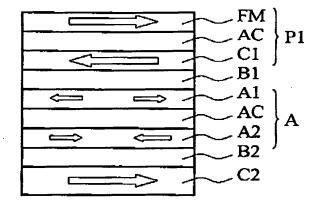


FIG.36

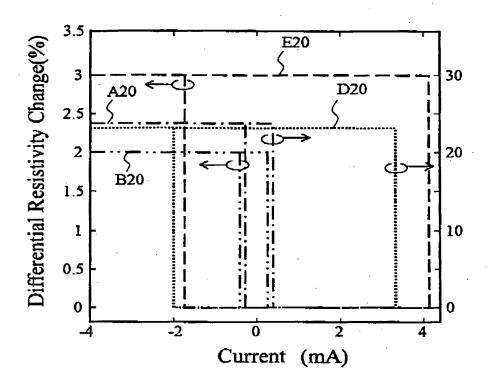


FIG.37

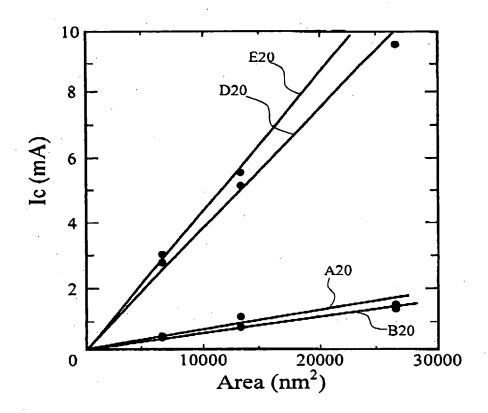


FIG.38

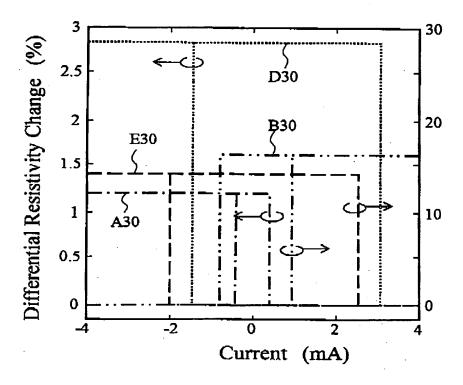


FIG.39

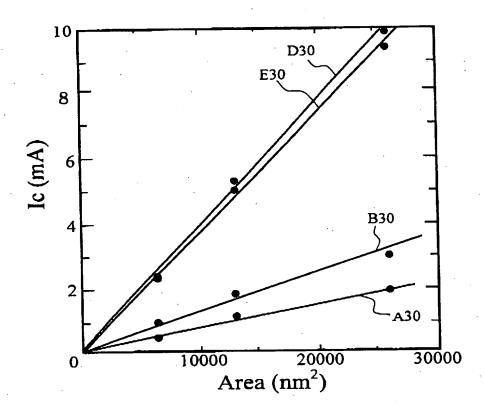


FIG.40

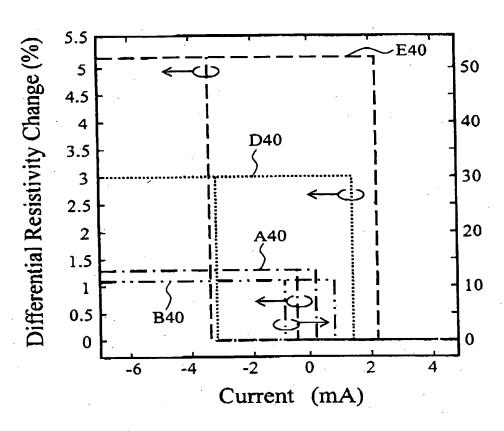


FIG.41

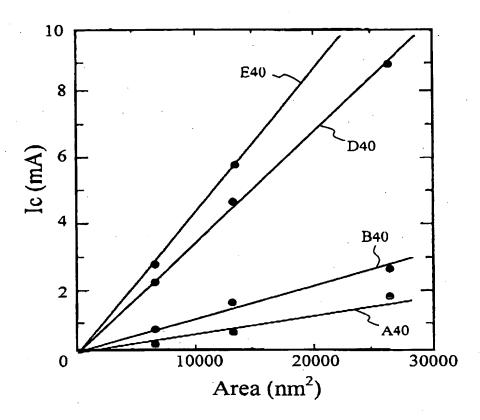


FIG.42

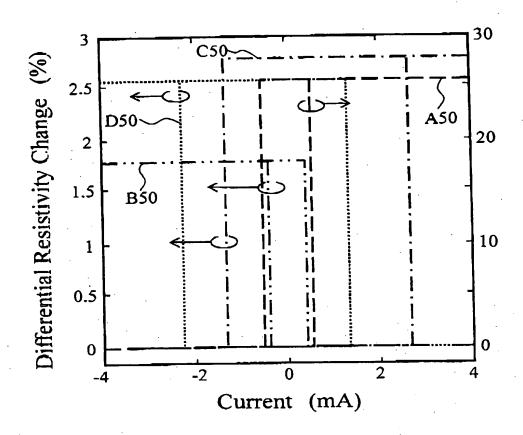


FIG.43

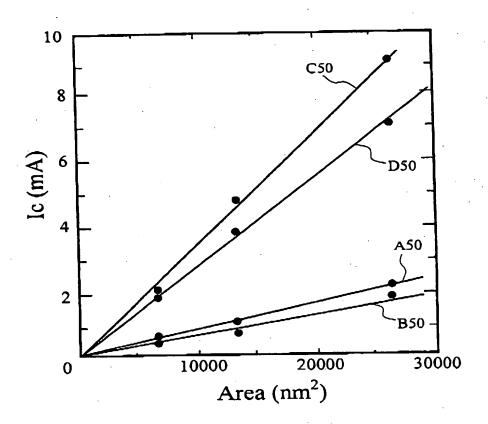


FIG.44

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 38 OF 42

38/42

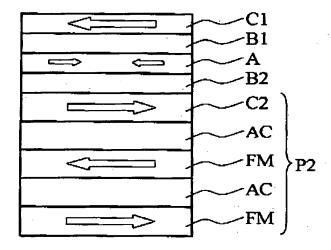


FIG.45

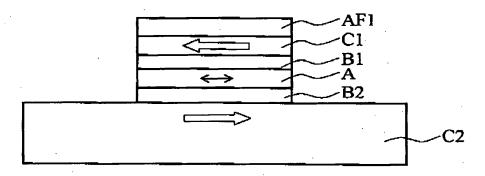


FIG.46

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 39 OF 42

39/42

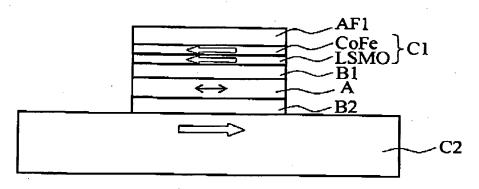


FIG.47

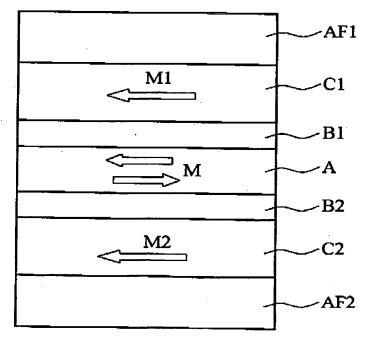
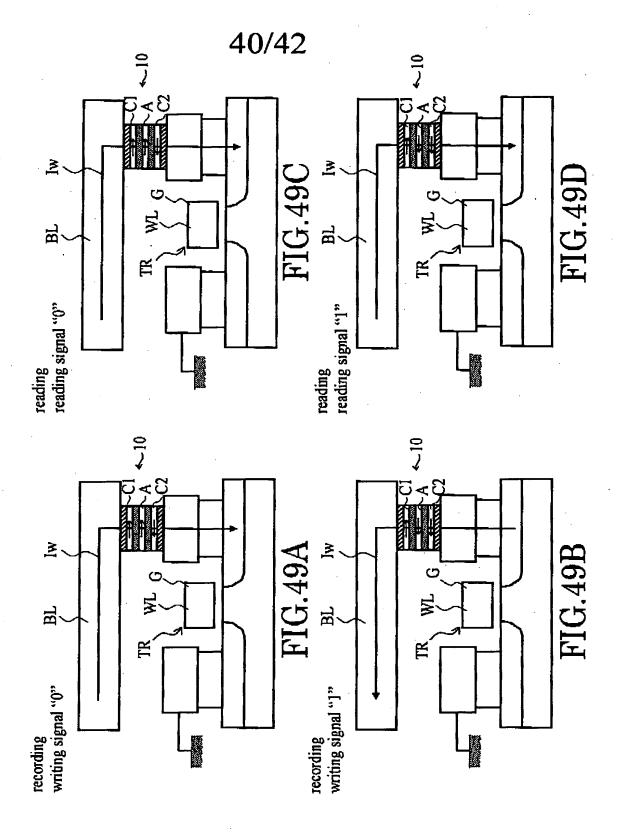


FIG.48



OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 41 OF 42

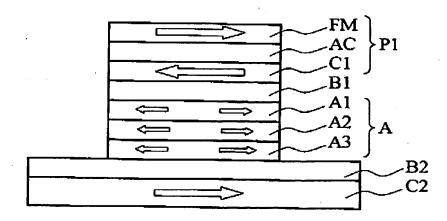


FIG.50

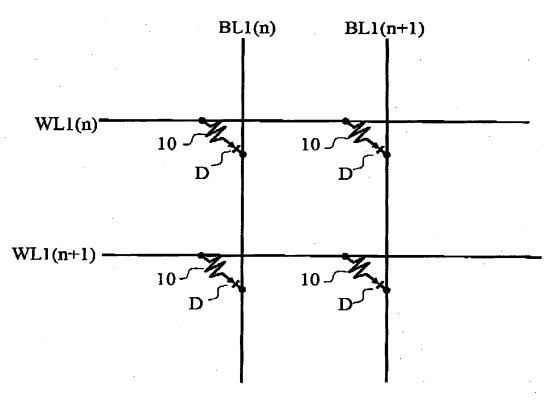


FIG.51